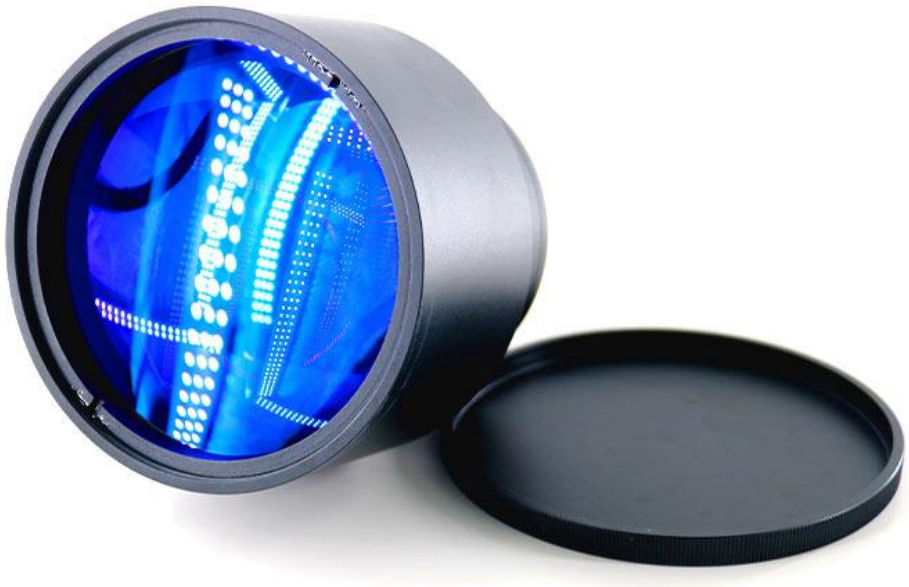
Ultra long distance collimating lens 1550nm (3KM focal length 320mm SMA905)



Product Description

The optical fiber output is collimated and reshaped into a large spot, suitable for high-power, long-distance transmission, and pulsed output lasers. Within the operating range, the light exhibits excellent collimation, with a uniform energy distribution and sharp, clear edges. The design adopts a multi-lens series with air gaps, compatible with single-mode, multi-mode, and large-core optical fibers, enabling functions such as remote sensing, illumination, and interference.

Part Number

NIR-CLM-W1550-100-3-62.5/125-SMA905

Product features

Standard fiber optic input with FC or SMA connectors、 Collimated space beam output、 Suitable for wavelengths in the range of 405 nm to 1.55 μm、 Collimation distance suitable for ≥2 km、 Beam energy concentration、 Multi-lens design with dual-sided antireflection coating on lenses to improve transmission efficiency

Parameters

525nm Ultra-long Distance Collimating Lens						
Working Wavelength	Output Spot Diameter	Beam Divergence Angle	Effective Focal Length mm	Transmission Distance	Fiber Type	Connector
525±20nm	80	0.20mrad	250	2km	62.5/125	FC/APC FC/PC SMA905
	100	0.15mrad	320	3km		
	150	0.10mrad	400	5km		
905nm Ultra-long Distance Collimating Lens						
Working Wavelength	Output Spot Diameter	Beam Divergence Angle	Effective Focal Length mm	Transmission Distance	Fiber Type	Connector
905±20nm	80	0.20mrad	250	2km	62.5/125	FC/APC FC/PC SMA905
	100	0.15mrad	320	3km		
	150	0.10mrad	400	5km		
1550nm Ultra-long Distance Collimating Lens						
Working Wavelength	Output Spot Diameter	Beam Divergence Angle	Effective Focal Length mm	Transmission Distance	Fiber Type	Connector
1550±20nm	80	0.20mrad	250	2km	62.5/125	FC/APC FC/PC SMA905
	100	0.15mrad	320	3km		
	150	0.10mrad	400	5km		